

A METHOD FOR DEVELOPING MARINER ASSESSMENTS

Chapter 2

A WORKSHOP FOR ASSESSMENT DEVELOPERS

This chapter contains an outline, slides, and exercises for a two-day workshop on developing mariner assessments.

This report may be downloaded from the U.S. Coast Guard Research and Development Center web site at <http://www.rdc.uscg.mil>.

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CHAPTER 2- A WORKSHOP FOR ASSESSMENT DEVELOPERS

Workshop Outline	2-4
Workshop Slides	2-6
Introduction to Assessment Development Process	2-6
Validity and Reliability of Mariner Assessment	2-9
Step 1: Specify Assessment Objectives	2-11
Step 2: Determine Assessment Methods	2-15
Step 3: Specify Assessment Conditions	2-18
Step 4: Develop Proficiency Criteria	2-20
Step 5: Prepare Assessment Materials	2-28
Summary	2-30
Workshop Exercises	2-31
Exercise 1: Understanding Validity and Reliability	2-31
Exercise 2: Specifying Assessment Objectives	2-37
Exercise 3: Determining Assessment Methods	2-49
Exercise 4: Specifying Assessment Conditions	2-55
Exercise 5: Developing Performance Measures	2-61
Exercise 6: Developing Performance Standards	2-69

Developing Mariner Assessments: Workshop Outline

Subject Area	Hours	
	Lectures	Exercise
1.0 Introduction to Assessment Development Process 1.1 Workshop staff and participant introductions 1.2 Review of research project context, instructional theory, and recent guidance from various sources 1.3 Workshop scope, audience, objectives, and agenda 1.4 Assessment uses, successes, and examples 1.5 Overview of assessment development process	.25 .25 .25 .15 .10 1.00	
2.0 Validity and Reliability 2.1 Definition of validity 2.2 Overview of issues relevant to validity 2.3 Definition of reliability 2.4 Overview of issues relevant to reliability 2.5 Discussion of validity and reliability of mariner assessments, including practical experience with reliability and validity (Exercise 1)	.25 .10 .25 .10 .10 1.00	.50 .50
3.0 Step 1: Specify Assessment Objectives 3.1 Selection of proficiency to be assessed 3.2 Identification of regulatory requirements 3.3 Analysis of job requirements 3.4 Specification of assessment objectives 3.5 Examples of assessment objectives 3.6 Discussion of specifying assessment objectives, including practical experience with specifying assessment objectives (Exercise 2)	.10 .25 .40 .25 .25 .25 1.50	.50 .50
4.0 Step 2: Determine Assessment Methods 4.1 Overview of basic assessment methods 4.2 Pros and cons of basic assessment methods 4.3 Overview of steps and issues in determining assessment methods 4.4 Examples of assessment methods 4.5 Discussion of determining assessment methods, including practical experience with determining assessment methods (Exercise 3)	.25 .25 .25 .25 .25 1.25	.25 .25

5.0 Step 3: Specify Assessment Conditions 5.1 Overview of steps involved and issues to consider 5.2 Conditions requiring specification 5.3 Examples of assessment conditions 5.4 Discussion of specifying assessment conditions, including practical experience with specifying assessment conditions (Exercise 4)	.25 .10 .25 <u>.25</u> 0.85	 .40 .40
6.0 Step 4: Develop Proficiency Criteria 6.1 Part 1: Developing performance <i>measures</i> 6.2 Overview of measurement definition and procedures 6.3 Definition of performance measures 6.4 Types of measurement 6.5 Examples of measurement types 6.6 Discussion of developing performance measures, including practical experience with developing performance measures (Exercise 5) 6.7 Part 2: Developing performance <i>standards</i> 6.8 Definition of performance standards 6.9 Example of performance standards 6.10 Definition of scoring procedures 6.11 Examples of types of scoring procedures and standards 6.12 Discussion of developing performance standards, including practical experience with developing performance standards (Exercise 6)	 .25 .25 .25 .25 <u>.25</u> 1.25 .25 .25 .25 .25 <u>.25</u> 1.25	 .75 .75 .75 .75
7.0 Step 5: Prepare Assessment Materials 7.1 Rationale and process for preparing materials 7.2 Example assessment form 7.3 Documentation to be prepared 7.4 Example materials	.25 .25 .25 <u>.25</u> 1.00	
8.0 Summary 8.1 Review of steps involved in developing mariner assessments 8.2 Summary and discussion of goals for the workshop	.25 <u>.25</u> 0.50	
TOTAL	9.60	3.15

The remainder of Chapter 2 is located in separate files. Please refer to Workshop Slides and Workshop Exercises.